

# Absolute Multiturn Shaft Encoder

## BPMV Flexible – ProCoder

### Profibus-DP, CANopen, DeviceNet

#### features

- 29 Bit multiturn-encoder
  - 13 Bit singleturn
  - 16 Bit multiturn
- modular buscover
- simple mounting
- bus parameters selectable via dipswitches
- scaling and preset value programmable



BPMV58S



BPMV58K

#### general data

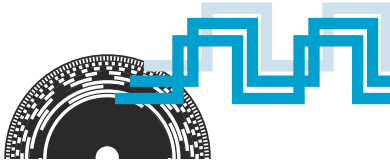
voltage supply	10 - 30 VDC with reverse polarity protection
max. supply current no load	50 mA (at 24 VDC)
max. resolution singleturn	13 Bit (1 step = 2' 38")
sultiturn	16 Bit (65'536 revolutions)
code switching speed	max. 800 kHz
accuracy	±0.05°
preset	value programmable within resolution range
Address	selectable via dipswitches
direction	programmable, default is increasing values with clockwise shaft rotation while viewing flange

#### mechanical data

max. revolutions	mechanical 10,000 /min electrical 6000 /min
rotor inertia	$2 \times 10^{-6} \text{ kgm}^2$
torque	< 0.015 Nm
max. shaft load	axial: 20 N      radial: 40 N
max. protection class	IP 65
material	housing: steel buscover/flange: aluminum
weight	approx. 600 g

#### ambient conditions

temperature range	-20...+85 °C
vibration	DIN EN 60068-2-6 ( $\leq 200 \text{ m/s}^2$ / 16 - 2000 Hz)
shock	DIN EN 60068-2-27 ( $\leq 2000 \text{ m/s}^2$ / 6 ms)
noise immunity	DIN EN 61000-6-2
emitted interference	DIN EN 61000-6-4

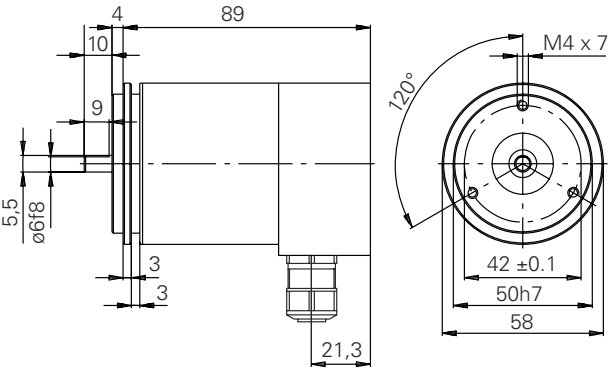


## Profibus-DP, CANopen, DeviceNet

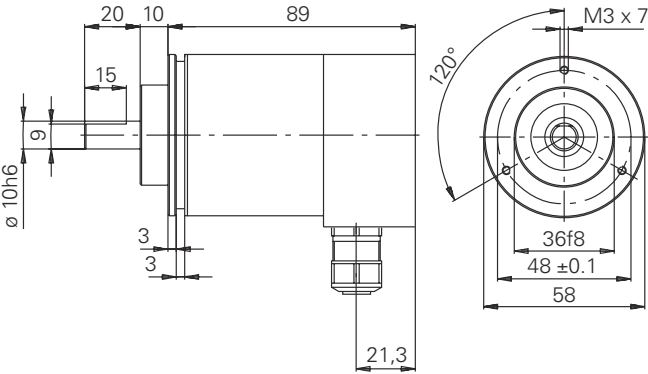


### diagram

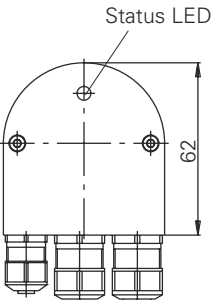
#### BPMV58S



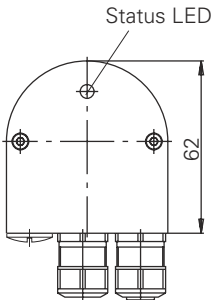
#### BPMV58K



#### Profibus-DP CANopen

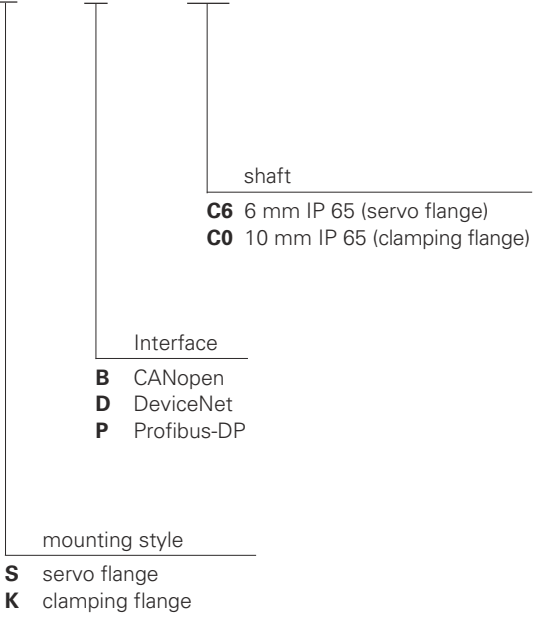


#### DeviceNet



### order designation

**BPMV 58**  **1P24**  **C13/16**  **G** Base encoder (no buscover)  
**BPMV 58**  **1P24**  **13/16**  **D** Complete encoder



### accessories

CD with GSD/EDS-Data and handbook include Art.Nr. 141134

buscover  
 Profibus-DP Art.Nr. 147997  
 CANopen Art.Nr. 147999  
 DeviceNet Art.Nr. 147998

#### BPMV58S servo flange

Mounting bracket Art.Nr. 116667  
 Screws and clamps Art.Nr. 117668

#### BPMV58K clamping flange

Mounting bell Art.Nr. 117698